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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/547,444	02/09/2007	Peter Miethe	23374	1660	
535 KF ROSS PC	7590 02/16/2011		EXAMINER		
	583 RIVERDALE AVENUE			DO, PENSEE T	
SUITE 203 BOX 900 BRONX, NY 10471-0900			ART UNIT	PAPER NUMBER	
			1641		
			NOTIFICATION DATE	DELIVERY MODE	
			02/16/2011	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

EMAIL@KFRPC.COM ereyes@kfrpc.com

	Application No.	Applicant(s)
	10/547,444	MIETHE ET AL.
Office Action Summary	Examiner	Art Unit
	Pensee T. Do	1641
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period versions to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on <u>03 M</u></li> <li>2a) This action is <b>FINAL</b>. 2b) This</li> <li>3) Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 12-16 and 18-27 is/are pending in the 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-16, 18-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated and any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s) Notice of References Cited (PTO-892)  Paper No(s) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate
J.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	ction Summary Pa	art of Paper No./Mail Date 20110212

## **DETAILED ACTION**

## **Priority**

This application <u>10547444</u>, PG Pub. No. <u>20070155024</u> filed 02/09/2007 is a national stage entry of PCT/DE04/00149, International Filing Date: 01/30/2004 and claims foreign priority to 10309132.7, filed 02/28/2003.

### Information Disclosure Statement

The IDS submitted on January 23, 2011 has been acknowledged and considered.

## Amendment Entry & Claims Status

The amendment filed on November 03, 2010 has been acknowledged and entered.

Claims 12-16, 18-27 are pending and being examined.

## Withdrawn Rejection(s)

Rejections under 112, 2nd paragraph and 103 in the previous office action are withdrawn herein.

# New Grounds of Rejection

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-16, 18-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12, it is unclear of the spatial relationship between the other components, i.e. oscillator, magnetic field sensor, etc. and the vessel.

Claim 12 is also unclear of the spatial relationship between the magnetic field sensor and the oscillator.

Claim 13 is unclear of the spatial relationship between the frequency divider and the rest of the device components, i.e. oscillator, magnetic field sensor and etc.

Claims 14, 19 and 20 recite "the oscillator frequency" which lacks antecedent support.

Claim 22 is unclear of the spatial relationship between the frequency multiplier and the other components of the device, i.e. oscillator, magnetic field sensor and etc.

Claims 25-27, all depending from claim 12, recite "the partial coils" which lacks antecedent basis.

Claim 27 also recites "the container" which lacks antecedent basis.

## Response to Arguments

Applicant's arguments, filed November 3, 2010, with respect to the rejection(s) of claim(s) 12-16, 18-27 under 103 and 112, 2nd have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

#### Remarks

The claims as now recited are free of prior arts.

The prior arts fail to teach at least one oscillator for producing an alternating modulating magnetic field of predetermined frequency and an alternating scanning magnetic field with a frequency different from that of the modulating magnetic field; and

at least one field generator connected to the oscillator for subjecting the analyte to the modulating magnetic field and the scanning magnetic field at the same time; and a first phase-sensitive detector connected to the magnetic field sensor and responsive to the frequency of the amplitude of the response magnetic field at the frequency of the scanning magnetic field and a second phase-sensitive detector connected to the first phase-sensitive detector.

The following references are pertinent arts of record:

Minchole (US 6,824,655 filed 12/30/2002) teaches applying two alternating magnetic fields, each with a different frequency, to two detecting coils comprising two different sample containers and detecting the AC difference between the coils, i.e. comparing two different particle systems or two different fluids. (see fig. 7, col. 11, lines 20-45; col. 12, lines 10-26).

Minchole fails to teach applying two alternating magnetic fields, each with a different frequency, to one sample container or the phase-sensitive detectors.

Nikitin et al. (EP 1262766A2) teaches a method of detecting magnetic particles by applying an ac magnetic field wherein the signal is being recorded at such a frequency that is a linear combination of the frequencies. (Entire document)

However, Nikitin fails to teach a device comprising an oscillator for producing an alternating modulating magnetic field of predetermined frequency and an alternating scanning magnetic field with a frequency different from that of the modulating magnetic

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field; and at least one field generator connected to the oscillator for subjecting the analyte to the modulating magnetic field and the scanning magnetic field at the same time; and a first phase-sensitive detector connected to the magnetic field sensor and responsive to the frequency of the amplitude of the response magnetic field at the frequency of the scanning magnetic field and a second phase-sensitive detector connected to the first phase-sensitive detector.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pensee T. Do whose telephone number is 571-272-0819. The examiner can normally be reached on Monday-Friday, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Shibuya can be reached on 571-272-0806. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Pensee T. Do/ Examiner, Art Unit 1641 /Jacob Cheu/ Primary Examiner, Art Unit 1641